

## Registration Form

### One Week GIAN Course on

*Emerging Antennas for Future Communication Systems: Theory, Challenges and Physical Implementation*  
(March 5-10, 2018)

1. Name of the Applicant:

2. Gender : Male Female

3. Designation & Department:

4. Mailing Address:

5. Tel: (Mob):  
(office):

6. Email:

7. Qualification:

8. Experience: Teaching \_\_\_\_\_ and Industry \_\_\_\_\_

Details of Registration Fee:

DD No:..... Amount:..... Date: .....

Bank:..... Branch:.....

Signature of the applicant

Date & Place:

**Note: Participants need to produce the relevant ID proof to confirm their category towards course registration fee.**

## Registration Fee Details:

Students: Rs. 1000/-

Faculty Members: Rs. 5000/-

Industry Delegates: Rs. 8000/-

Participants from abroad: \$500

Course is free for internal candidates of NIT Goa.

Mode of Payment (Only through DD): Demand Draft (DD) should be drawn in favour of "Director NIT Goa" payable at Ponda, Goa. Any other mode of payment will not be accepted. Registration of seats will be based on first-come-first-served basis.

## How to Register:

Step 1: Register in the GIAN portal using following link <http://www.gian.iitkgp.ac.in/GREGEN/>

Step 2: Select this course from the list of courses.

Step 3: If shortlisted, fill this course registration form and pay the registration fee through DD.

Step 4: Send the scanned copy of filled and duly signed registration form along with DD on email address [pragati.gian@nitgoa.ac.in](mailto:pragati.gian@nitgoa.ac.in) on or before 22<sup>nd</sup> February 2018.

Step 5: Submit the hard copy of this registration form and DD on first day of the course i.e. 5<sup>th</sup> March 2018 to the coordinators. Please produce ID proof towards suitable registration fee.

## Accommodation:

Accommodation shall not be provided due to the limited hostel facility.

## How to Reach NITGOA:

NIT Goa is located at Farmagudi which is about 4 KM from Ponda, and 29 KM south-east of Panjim and 25 KM from Margoa. Farmagudi is well connected by road with various parts of Goa, and also with the Dabolim airport.

## Eligibility Criteria:

The program is open to teachers, research scholars, PG, UG students. People from industry and government organizations with the relevant background can attend.

Ministry of Human Resource Development  
Govt. of India

## GLOBAL INITIATIVE ON ACADEMIC NETWORK



on

**Emerging Antennas for  
Future Communication  
Systems: Theory,  
Challenges and Physical  
Implementation**  
(March 5-10, 2018)

**Organized by:**

Department of Electronics and Communication  
Engineering  
राष्ट्रीय प्रौद्योगिकी संस्थान गोवा  
**National Institute of Technology Goa**  
Ponda. Goa-403401.

Website: [www.nitgoa.ac.in](http://www.nitgoa.ac.in)

## Course Overview:

Antenna is an important part of wireless communication systems and many sensors. Efficient antenna design improves the overall performance of such systems. In simple words, antennas are the "Eyes" and "Ears" of modern sensors, wireless and satellite communications systems, radars and many other present and future electromagnetic devices. As such, future advancements will depend on developing new antenna designs capable of meeting the ever increasing demands such as light weight, beam steering, wide bandwidth, high gain, compact size, etc. The topics of discussion will deal with the latest in the field and offer overview of future challenges in research and developments.

## Objectives:

- To understand electromagnetic radiation and its impact in real environment
- To learn the latest in the field of Dielectric Resonator Antennas
- To learn about different challenges in design and implementation of antenna systems used in satellites for communications and navigation, and space systems for remote sensing
- To direct the possible ways to meet out the on-going/up-coming challenges as per current state-of-art
- To establish research link with colleagues in Canada, particularly at the Royal Military College of Canada and Queen's University in Kingston, Canada.

## About National Institute of Technology Goa:

The National Institute of Technology Goa (NIT Goa) is a premier technical Institute of the region. NIT Goa was established in the year 2010 by an act of parliament (NIT act 2007) and it is declared as 'Institute of National Importance'. NIT Goa is an autonomous institute and functioning under the aegis of Ministry of human Resource Development (MHRD), Govt. of India.

The Institute offers UG and PG courses in three Engineering Departments: Computer Science and Engineering, Electronics and Communication Engineering and Electrical and Electronics Engineering. The Institute also offers Ph.D in all the three above mentioned engineering departments. There is Humanities and Sciences Department which offers only Ph.D programme.

## Department of ECE:

The Electronics and Communication Engineering Department of NIT Goa was formed in 2010 when NIT Goa was established. Currently, it offers an undergraduate programme namely Bachelor of Technology in Electronics and Communication Engineering (B Tech in ECE), post-graduate M.Tech programme on VLSI and Ph.D programme. The goal of the department is to impart both theoretical and practical knowledge in Electronics and Communication Engineering to students so as to enable them for technology and research. The department covers following major areas in Electronics and Communication Engineering through its courses and projects: RF and Microwaves, Antennas, Microelectronics and Electronics Design, Communication and Networking, Signal Processing. The department is well equipped with RF and Microwave related hardware and real time simulator software.

## RF and Microwave Research Group:

There is a dedicated research group actively working on emerging research areas such as planar and non planar antennas, compact antenna array, phased array radar systems, microwave imaging, ground penetrating radar. The group is actively looking for candidates for various positions in the similar areas.

## Coordinators:

Dr. Pragati Patel,  
Asst. Prof., Department of ECE,  
NIT GOA, Farmagudi,  
Ponda-403401,  
Email: [pragati.gian@nitgoa.ac.in](mailto:pragati.gian@nitgoa.ac.in)

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Asst. Prof., Department of ECE,  
NIT GOA, Farmagudi,  
Ponda-403401,  
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Mobile: 8275681583

## Course Instructor:

Yahia M. M. Antar (S'73–M'76–SM'85–LF'00) received the B.Sc. (Hons.) degree in 1966 from Alexandria University, Alexandria, Egypt, and the M.Sc. and Ph.D. degrees from the University of Manitoba, MB, Canada, in 1971 and 1975, respectively, all in electrical engineering.

In 1977, he held a Government of Canada Visiting Fellowship at the Communications Research Centre in Ottawa, ON, where he worked with the Space Technology Directorate on communications antennas for satellite systems. In May 1979, he joined the Division of Electrical Engineering, National Research Council of Canada, Ottawa, where he worked on polarization radar applications in remote sensing of precipitation, radio wave propagation, electromagnetic scattering, and radar cross section investigations. In November 1987, he joined the staff of the Department of Electrical and Computer Engineering, Royal Military College of Canada, Kingston, ON, where he has held the position of professor since 1990 and is presently Vice Dean for defence and security research. He has authored or coauthored close to 200 journal papers, many chapters in books, about 400 refereed conference papers, holds several patents, has chaired several national and international conferences, and has given plenary talks at many conferences. He has supervised and co-supervised over 85 Ph.D. and M.Sc. theses at the Royal Military College and at Queen's University, of which several have received the Governor General of Canada Gold Medal, the outstanding Ph.D. thesis of the Division of Applied Science, as well as many best paper awards in major international symposia. He served as the Chairman of the Canadian National Commission for Radio Science (CNC, URSI, 1999–2008), Commission B National Chair (1993–1999), held adjunct appointment at the University of Manitoba, and has a cross appointment at Queen's University in Kingston.

Dr. Antar is a Life Fellow of the IEEE (Institute of Electrical and Electronic Engineers), a Fellow of the Engineering Institute of Canada (FEIC), a Fellow of the Electromagnetic Academy, serves as an Associate Editor of the IEEE Antennas and Propagation Magazine, served as Associate Editor of the IEEE Transactions on Antennas and Propagation, the IEEE Antennas and Wireless Propagation Letters, IET, and was a member of the Editorial Board of the RFMiCAE Journal.

